

FOR OFFICIAL USE ONLY

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

SEARCH REQUEST FORM

Examiner # (Mandatory): _____ Requester's Full Name: Derek Boles
Art Unit 3749 Location (Bldg/Room#): ^{PK1} 11 D54 Phone (circle 305 306 308) 1804
Serial Number: 09/981616 Results Format Preferred (circle): PAPER DISK E-MAIL
Title of Invention Tank and Kit for use with liquid heating unit
Inventors (please provide full names): _____

Earliest Priority Date: _____

Keywords (include any known synonyms registry numbers, explanation of initialisms):

Legs
separator
filter

Search Topic:

Please write detailed statement of the search topic, and the concept of the invention. Describe as specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples of relevant citations, authors, etc., if known. You may include a copy of the abstract and the broadcast or most relevant claim(s).

STAFF USE ONLY

Searcher: _____
Searcher Phone #: _____
Searcher Location: _____
Date Picked Up: _____
Date Completed: _____
Clerical Prep Time: _____
Terminal Time: _____
Number of Databases: _____

Type of Search

_____ N.A. Sequence
_____ A.A. Sequence
_____ Structure (#)
_____ Bibliographic
_____ Litigation1
_____ Fulltext
_____ Procurement
_____ Other

Vendors (include cost where applicable)

_____ STN
_____ Questel/Orbit
_____ Lexis/Nexis
_____ WWW/Internet
_____ In-house sequence systems (list)
_____ Dialog
_____ Dr. Link
_____ Westlaw
_____ Other (specify)

56 WATER

This subclass is indented under the class definition. Heating system in which the room or building is heated by the circulation of water or some other liquid.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 8, for automatic control.
- 12.4, for car heaters.
- 15, for brooder heaters.
- 17, ,18, for combined radiator and boiler.
- 34+, for vehicle heaters.

57 Fluid fuel

This subclass is indented under subclass 56. Water heating-systems in which the water is heated by fluid fuel.

58 Steam

This subclass is indented under subclass 56. Water heating-systems where the water is heated by steam.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 37+, for train steam heaters.
- 71+, for steam radiators.

59 Circulation

This subclass is indented under subclass 56. Water heating systems having special means for circulating the heating liquid.

SEE OR SEARCH CLASS:

- 138, Pipes and Tubular Conduits, subclasses 37+ for fittings and pipes of general utility having means therein to direct the flow of fluid therein and even though intended to be used in a heating system.

60 Geyser boiler

This subclass is indented under subclass 59. Subject matter in which the water is heated and forced out of a boiler by intermittent pulsations.

61 Auxiliary boiler

This subclass is indented under subclass 59. Subject matter having an auxiliary boiler for aiding the circulation.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 37+, for train steam boiler combinations.

62 B ilder l p

This subclass is indented under subclass 59. Subject matter in which only a part of the water is bypassed through a boiler.

63 Pump

This subclass is indented under subclass 59. Subject matter having a pump for circulating the water.

64 Steam displacing

This subclass is indented under subclass 63. Subject matter wherein the pump consists of a chamber where water enters and is forced out by means of steam pressure.

65 Pressure regulator

This subclass is indented under subclass 56. Water heating-systems with means for regulating or varying the pressure on the circulating system.

SEE OR SEARCH CLASS:

137, Fluid Handling, subclasses 455+ for line condition change responsive valves, particularly subclasses 505+ for fluid pressure regulators, per se.

236, Automatic Temperature and Humidity Regulation, appropriate subclasses.

66 Expansion tanks

This subclass is indented under subclass 56. Tanks or chambers limited in use to provide for the expansion of the water in the circulating pipes and radiators of water heating systems.

SEE OR SEARCH CLASS:

137, Fluid Handling, appropriate subclasses for fluid handling apparatus including tanks in combination with other fluid handling means, see particularly subclass 593 for such systems including an expansion chamber in combination.

220, Receptacles, for tank structure not necessarily limited to water heating systems.